AUTODOC CLUB

How to change engine oil and filter on **BMW E39** – replacement guide

VIDEO TUTORIAL



Important!

This replacement procedure can be used for:
BMW 3 Saloon (E36) 320i 2.0, BMW 3 Coupe (E36) 320i 2.0, BMW 3 Convertible (E36) 320i 2.0, BMW 3 Touring (E36) 320i 2.0, BMW 3 Touring (E36) 328i 2.8, BMW 3 Saloon (E36) 328i 2.8, BMW 3 Saloon (E36) 323i 2.5, BMW 3 Coupe (E36) 328i 2.8, BMW 3 Convertible (E36) 328i 2.8, BMW 5 Saloon (E39) 523i 2.5, BMW 5 Saloon (E39) 528i 2.8, BMW 3 Convertible (E36) 323i 2.5, BMW 3 Coupe (E36) 323i 2.5, BMW 3 Touring (E36) 323i 2.5, BMW 7 (E38) 728i / iL 2.8, (+ 58)

The steps may slightly vary depending on the car design.

REPLACEMENT: ENGINE OIL AND FILTER – BMW E39. LIST OF THE TOOLS YOU'LL NEED:



- Wire brush
- All-purpose cleaning spray
- Drive socket # 17
- Drive socket # 36
- Ratchet wrench
- Torque wrench
- Tap wrench
- Flat Screwdriver
- Oil drain pan
- Funnel
- Fender cover

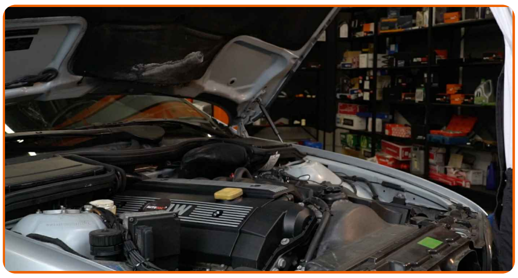
BUY TOOLS

Replacement: engine oil and filter – BMW E39. AUTODOC recommends:

- Replace the oil filter every time when changing motor oil.
- Wear gloves to prevent contact with hot liquid.
- Warning! Shut down the engine before starting any work – BMW E39

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

1 Open the hood.



2 Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.



3 Unscrew the oil filler plug.



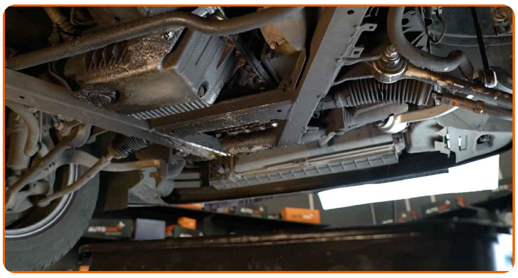
4 Lift the car using a jack or place it over an inspection pit.



Replacement: engine oil and filter – BMW E39. Professionals recommend:

- The vehicle must be on even keel, and if it is at an angle, the drain plug must be at the lowest point.

5 Put a waste oil container with at least 7 l capacity under the drainage hole.



6 Clean the area of the oil pan drainage hole. Use a wire brush. Use all-purpose cleaning spray.



7 Unscrew the drain plug. Use a drive socket #17. Use a tap wrench.



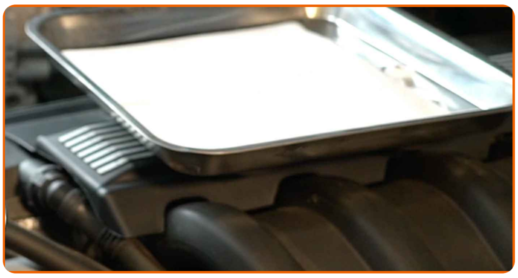
8 Drain the used oil.



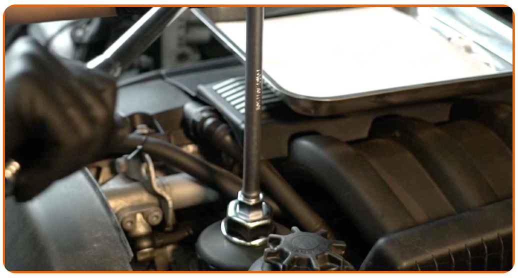
Replacement: engine oil and filter – BMW E39. Tip from AUTODOC experts:

- Caution! The oil may be hot.
- Wait until the oil has completely drained from the drainage hole.

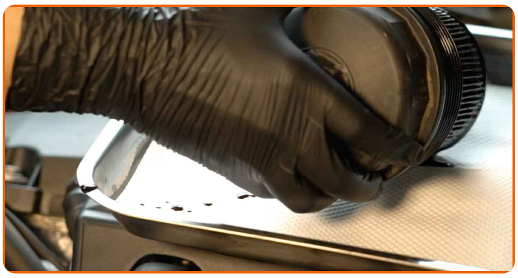
9 Prepare a container for the old oil filter.



10 Unscrew the filter housing cap together with the old filter element. Use a drive socket #36. Use a ratchet wrench.



11 Put the old oil filter in the container.



Replacement: engine oil and filter – BMW E39. AUTODOC experts recommend:

- Move up the container. The oil starts to drain out of the drainage hole immediately after you have removed the oil filter.

12 Detach the oil filter from the filter cover.



13 Remove the oil filter cover O-ring. Use a flat screwdriver.



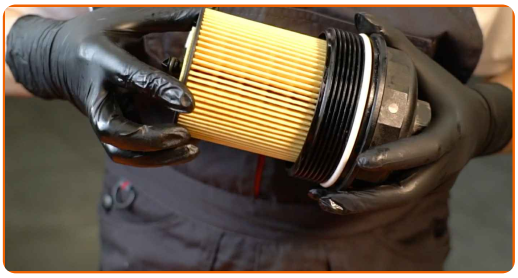
14 Clean the oil filter housing cap. Use all-purpose cleaning spray.



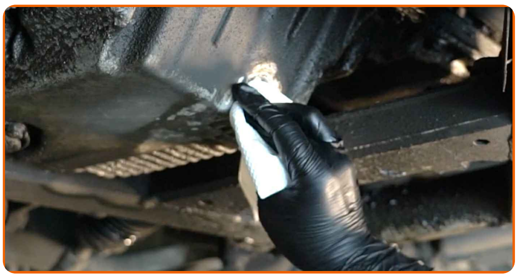
15 Install a new O-ring to its mounting seat on the filter cover.



16 Install the new oil filter to the mounting seat on the filter cover.



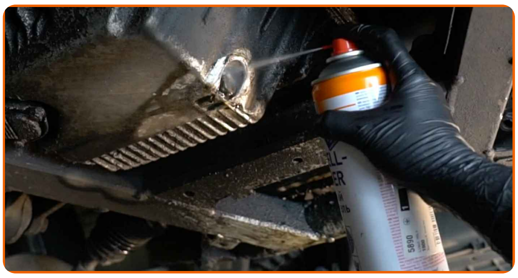
17 Clean the area of the oil pan drainage hole.



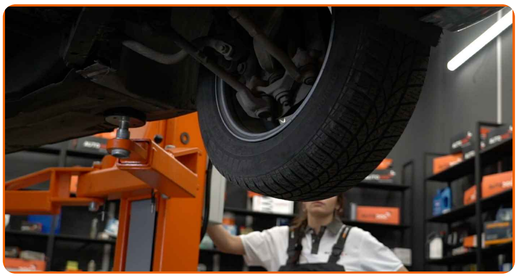
18 Screw in the new drainage plug and tighten it. Use a drive socket #17. Use a torque wrench. Tighten it to 25 Nm torque.



19 Clean the area of the oil pan drainage hole. Use all-purpose cleaning spray.



20 Lower the car.

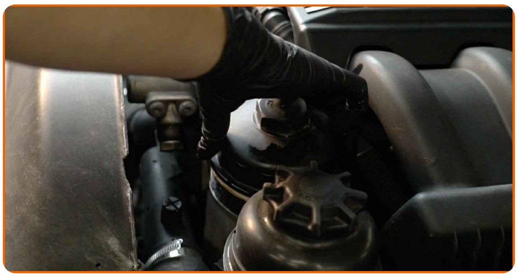


21 Lubricate the rubber seal of the new filter with a little amount of fresh oil.



22

Install a new oil filter housing cover and tighten it. Use a drive socket #36. Use a torque wrench. Tighten it to 25 Nm torque.



23

Remove the oil filler cap.



24

Insert the funnel.



25

Pour oil into the engine through the filler. Required amount of oil: 6.5 L.



Replacement: engine oil and filter – BMW E39. Tip:

- Use the oil recommended by the manufacturer.

26 Check the oil level using the dipstick. Top up oil if necessary.



Please note!

- The oil level should be between the Min and Max marks.

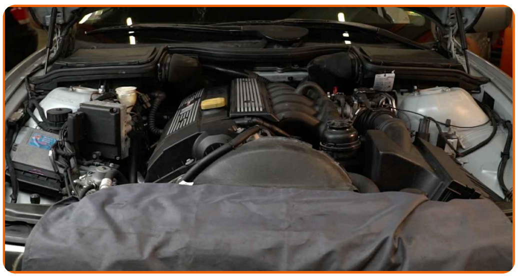
27 Install the oil filler cap.



28 Tighten the oil filler cap.



29 Run the engine for a few minutes. After the oil pressure warning light goes out, stop the engine.



30 Check the oil level 5 minutes after the stop of the engine operation using a dipstick and add oil if necessary.



Please note!

- The oil level should be between the Min and Max marks.
- Make sure that the oil filler cap is properly tightened.
- Check the threaded plug of the drainage hole and the oil filter seal for tightness. If necessary, carefully tighten them up.

31 Remove the fender protection cover.



32 Close the hood.



Replacement: engine oil and filter – BMW E39. AUTODOC recommends:

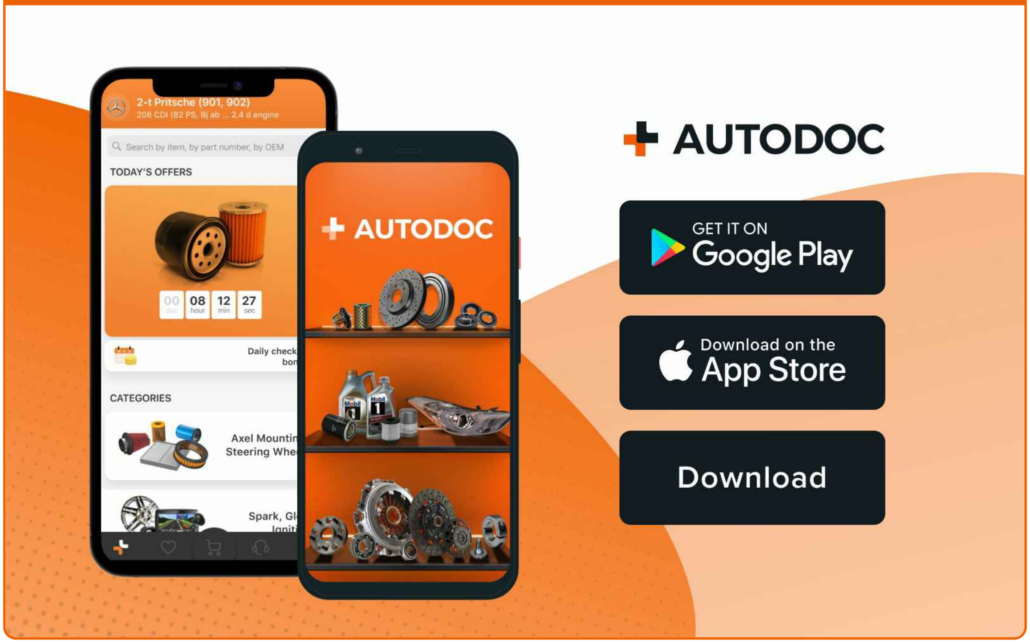
- Note that oil pressure warning light, which indicates insufficient pressure in the lubrication system, may be on for a longer time than usual. After a few seconds, the oil will fill all the channels, and the light will go out.
- To protect the environment from pollution, be sure to dispose of the used filters at special collection points.

WELL DONE!

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